



FEEDLINE



BULLETIN OF THE CANTON AMATEUR RADIO CLUB

Affiliated with the "American Radio Relay League"

50th YEAR ANNIVERSARY 1941 - 1991

DECEMBER....1991

| | | |
|----------------------------------|-----------------------|--------|
| PRESIDENT- Mark Warrington N8LZB | SECY - Jerry Shrigley | K8BAHF |
| VICE PRES - Frank Dearman W8TUY | EDITOR - Bill Parks | K8JZN |
| TREAS - Larry Schmader K8RMY | ASST - Mickie Parks | XYL |

Trustees

| | | | |
|---------------|--------|----------------|--------|
| Dave Ost | W8BPTU | Craig Stucker | N8KNW |
| Chuck Henley | N8LIV | Dave Beltz | W8BAYE |
| Scott Mathews | N8JSK | Kent Rothermel | K8BLNG |

The C A R C meets the third Wednesday of the month at 7:30 PM.

NEXT MEETING IS DECEMBER 18TH at the EMERGENCY PREPAREDNESS CENTER.

MERRY CHRISTMAS & HAPPY NEW YEAR

NEW MEMBERS FOR 1991-1992 FISCAL YEAR

On December 1st, the new mailing list for the new fiscal year Oct 1991 to Oct 1992, was made up. If you received this Feedline, you will continue to receive it till December 1992. The fiscal year ends October 1st 1992, but we give a two month grace period till December 1st, 1992 (aren't we nice?).

The officers wish to WELCOME all you members back into the fold and a SPECIAL WELCOME to the many new members for this year. These include some former members, that left their membership lapse and several new Amateurs, many that were given a courtesy membership this past year, that are joining for the first time.

I hope I don't forget any but here is the list of new members that I can think of: Ron Sides N5RRD, Richard Beaman Jr KF6ME, Vic Bell N8AAE, Ed Clinger W8DRT, Jim Darrah W8DTP, Scott Warstler N8EYM, Dave Raines KE8HA, Darrell Shaffer N8HHP, Maynard Hershberger KE8HQ, Dan Barrett N8IGY, John Stanfield KB8JTI, Joe Horvath W8KDM, Steve Voican W8MCC, Mark Ladnow KB8MHQ, Bob Foss KB8MOK, Bernie Wickham KB8MSL, Gary Lewis KB8MSX, Bob Schmucker N8NDH, Jim Thrasher N8NGZ, Robert Knotts N8NMY, Scott Klemens N8NVP, Johnny Sible Jr N8OUR, Russ McMahan N8PII and Ken Kroninger N8PIM.

Again, a BIG WELCOME, and it is nice to see many of you attending the club meetings. Your ideas, suggestions and input on ways to improve our club and make the meetings more enjoyable, are most welcome. It is the active members, not just the elected officers, that makes the club function. We need chairpersons and participating members, for several committees. Volunteer and actively take part in the operation of your club.

As the year progresses, former chairmen will be asked by our new President Mark N8LZB, to continue being the leaders and several new committees will be formed, as the need arises. Be ready to do your part and VOLUNTEER.

DX ANTENNA HEADINGS

Thanks to fellow CARC member, Dag W8LVL, enclosed is a list of DX stations through out the world, with antenna bearings and distance from Canton Ohio. Dag found a neat little computer program, originated from the RALEIGH NC HAM CLUB "EXCITER" BULLETIN. He entered the Canton Latitude and Longitude in the program, then looked up all the locations of the DX cities and countries and copied the antenna bearing and distance that the computer program figured out for the GREAT CIRCLE BEARING to the DX country. Dag also lists the program, so you may enter and figure out any city not listed on this list.

VOLUNTEER EXAMS

On Saturday November 30th, Amateur exams were given at the EOC by Dick Stellarini W88VUN and his fine team of Certified Volunteer Examiners.

Twenty one participants, out of thirty six that took tests, were successful in up-grading. Some of the others successfully passed some elements and were given certificates of completion but did not gain an up-grade.

We have 3 new Technicians, 12 new No-Code Technicians, 3 new General Class, 2 new Advanced Class and 1 new Extra Class. Unfortunately, I did not get the addresses of the participants, so can not give full details. CARC members that up-graded are: Marko KB8MHQ to General, Byron N8NFI to Advanced, Bob N8NDH to General, Dan N8LVO to Extra Class and Jim W8DTP to Technician. Other Stark County hams were Don W8DEA to General and David McCune (son of W8LNK & N8AIM) to No-Code Technician.

Team members besides Dick WBSVUN, were Bill WDBLFM, Mike WABMKH and John NMBK doing the paper work, Art WBFEK administering the CW tests and observing the test area, Kay WBLNK, Judy NBAIM, Randy KDBJN and John KBBNR taking care of the No-Code testing.

If you hold an Extra Class or Advanced Class Amateur license and would like to help with the testing, contact Dick WBSVUN for information on how to become a Certified Volunteer Examiner. The team could use some more volunteers.

Last test session of this year, in this area, will be on Saturday December 14th, in Ravenna. 1992 schedule calls for January 11th at Akron University, January 25th by Goodyear and February 29th here in Stark County at the Emergency Operating Center. Test fee for 1992 will be \$5.40 (still no charge for Novice Test).

MINUTES OF NOVEMBER CARC MEETING

The November 20, 1991 regular meeting of the Canton Amateur Radio Club was called to order at 7:35 PM by President Mark Warrington N8LZB, at the Emergency Preparedness Center. The usual round of introductions followed, with 54 members and 5 guests in attendance.

SECRETARY'S REPORT - There were no additions to the minutes of the October meeting and they were approved as published.

TREASURER'S REPORT - Larry Schmader K8RMY, reported a balance of \$3209.00 in the club treasury.

PRESIDENT'S REPORT - Mark Warrington N8LZB, reported that he is looking for volunteers to form a Computer Committee. This committee will be responsible for educating the club membership in the use of the club's computer and performing file maintenance.

A new Repeater Committee has been formed. The committee consists of Bob Schmucker N8NDH, Kent Rothermel K8BNLG and Chairman Jerry Shrigley K8BAHF.

The trustees decided to purchase a printer and two sets of head-phones for use in the club shack.

Jerry Shrigley K8BAHF, reported that the club's repeater is back on the air. The height at ground level at the new repeater site, is 1230 feet above sea level.

50/50 DRAWING - \$20.00 was won by Bill MacNealy WDBLFM.

PROGRAM - The program for the evening was the video "HAMS IN SPACE".

After the video, the meeting adjourned for coffee, donuts and eyeball QSO's.

Respectfully submitted by
Jerry Shrigley K8BAHF
CARC Secretary

FROM THE REPEATER COMMITTEE

The RC-850 controller is now on line on the club's repeater 146.79. The Mail Box and the Phone-Patch features are now enabled. Your Auto Dial and Mail Slot numbers have remained unchanged. The mail slot messages are now the same as those in the WDSAYE machine. There are a few Auto Dial locations open. If you would like one, or have changed your call or phone number, please contact Bob Schmucker N8NDH or Jerry Shrigley K8BAHF.

1992 CALLBOOKS ARE HERE

The club has just purchased the 1992 Callbooks. The North American callbook custodian is Bill K8JZN and the DX callbook custodian is Art WBFEK. If you work someone that is not listed in your callbook, give the custodian a call and he will give you the address.

If you want a new callbook, KenMar now has them in stock. Give Ken or Sue a call on 499-7388.

QSL INFORMATION

Thanks to the ARRL, we have an Out-going QSL Bureau and an In-coming QSL Bureau. They both work differently so will try to explain the proper way to use them.

OUT-GOING DX QSL BUREAU - If you are a member of the Canton Amateur Radio Club (you must be or you would not receive this newsletter, Hi) and a member of the ARRL, you can mail out your DX QSL cards for free. Kay W8LNK is our club manager for this service. Please use the following guidelines:

Prepare your cards and give them to Kay W8LNK along with your MOST RECENT QST MAILING LABEL (this is a must, even if you are only sending one card). Kay would like to have enough cards to send at any one time to make it worth while. The cost is absorbed by the club for the postage and the \$2.00 processing fee to the ARRL. A real bargain for you members.

IN-COMING 8TH DISTRICT QSL BUREAU - This is an all volunteer service. Prepare at least two (or more if you expect a large amount of cards) 5" x 7 1/2" to 6" x 9 1/2" envelopes (no smaller - no larger). In the upper left hand corner, print your call letters in bold print at least 1/2 inch high. It is a SASE, so put on your mailing address complete and a 29 cent stamp. This amount of postage will handle 6 to 8 cards. When the bureau sends your last envelope, it will be marked "LAST ENVELOPE AT BUREAU", so you can prepare some more envelopes.

The QSL Bureau does not handle USA to USA cards unless from bonafide QSL managers. The address to send these envelopes is:

8th AREA QSL BUREAU
P.O. BOX-182165
COLUMBUS, OHIO 43218-2165

| PREFIX | COUNTRY_CITY | BEARING | DISTANCE | PREFIX | COUNTRY_CITY | BEARING | DISTANCE |
|--------|-------------------------|---------|----------|---------|--------------------------|---------|----------|
| V3 | CHAGOS-DIEGO GARCIA... | 43 | 9636 | W8 | WV-CHARLESTON..... | 184 | 166 |
| V6 | PITCAIRN IS..... | 224 | 5588 | W9 | IL-CHICAGO..... | 285 | 339 |
| V5 | BRUNEI-BON.SERI BEGAWAN | 338 | 9106 | W9 | IN-INDIANAPOLIS..... | 256 | 262 |
| V6 | HONG KONG..... | 343 | 3216 | W9 | WI-MILWAUKEE..... | 237 | 367 |
| VU | INDA-NEW DELHI..... | 28 | 7440 | XA4-X14 | REVILLA GIGEDO IS..... | 241 | 2394 |
| VU | INDIA-BOMBAY..... | 23 | 7998 | XE-XI | MEXICO-MEXICO CITY..... | 228 | 1800 |
| VU | INDIA-CALCUTTA..... | 11 | 8038 | XT | BURKINA-FASO..... | 88 | 5076 |
| VU7 | ANDAMAN & NICOBAR IS... | 8 | 3899 | XU | KHMER REP-PHNON PENH... | 332 | 8125 |
| VU7 | LACCADIVE IS..... | 31 | 9559 | XV | VIETNAM-HO CHI M CITY... | 350 | 8396 |
| W0 | CO-DENVER..... | 273 | 1249 | XW | LAO REP-VIENTIANE..... | 355 | 8358 |
| W0 | KS-WITCHITA..... | 261 | 875 | XY-XZ | BURMA-RANGOON..... | 4 | 9370 |
| W0 | MO-MINNEAPOLIS..... | 300 | 687 | YA | AFGHANISTAN-KABUL..... | 24 | 6899 |
| W0 | MO-KANSAS CITY..... | 265 | 708 | YB-YH | INDONESIA-JAKARTA..... | 346 | 19010 |
| W0 | NE-OMAHA..... | 277 | 760 | YI | IRAQ-BAGHDAD..... | 36 | 6610 |
| W0 | ND-BISMARCK..... | 300 | 1948 | YJ | NEW HEBRIDES..... | 270 | 8920 |
| W0 | SD-PIERRE..... | 291 | 1004 | YK | SYRIA-DAMASCUS..... | 41 | 6394 |
| W0 | MO-ST LOUIS..... | 255 | 491 | YL | LITHUANIA-VILNA..... | 38 | 4562 |
| W1 | CT-HATFORD..... | 78 | 456 | YN | LATVIA-RIGA..... | 36 | 4449 |
| W1 | ME-BANGOR..... | 62 | 694 | YO-YR | NIGARUA-MANAGUA..... | 189 | 1374 |
| W1 | MA-BOSTON..... | 75 | 548 | YS | ROMANIA-BUCHAREST..... | 40 | 5438 |
| W1 | NH-CONCORD..... | 70 | 539 | YT-YU | EL SALVADOR-SANSALVADOR | 196 | 1974 |
| W1 | RI-PROVIDENCE..... | 79 | 523 | YV-YY | YUGOSLAVIA-BELGRADE..... | 48 | 4833 |
| W1 | VT-MONTPELIER..... | 59 | 508 | YV-YY | VENZUELA-CARACAS..... | 153 | 2285 |
| W2 | TRENTON..... | 95 | 349 | YV-YY | AVES IS..... | 95 | 4455 |
| W2 | NY-BUFFALO..... | 41 | 194 | Z2 | ZIMBABWE-HARARE..... | 82 | 8656 |
| W2 | NY-NEW YORK CITY..... | 88 | 312 | Z3 | ALBANIA-TIRANA..... | 68 | 3222 |
| W2 | NY-SYRACUSE..... | 60 | 387 | ZB | GIBRALTA..... | 96 | 1473 |
| W3 | DE-WILLINGTON..... | 101 | 313 | ZD7 | SAINT HELENA-JAMESTOWN. | 117 | 5801 |
| W3 | PA-PHILADELPHIA..... | 97 | 314 | ZD8 | TRISTAN-DA CUNHA..... | 131 | 6916 |
| W3 | DC-WASHINGTON..... | 118 | 268 | ZE | ZIMBABWE-HARARE..... | 89 | 8183 |
| W3 | MD-BALTIMORE..... | 111 | 274 | ZF | CAYMAN IS..... | 180 | 1491 |
| W3 | PA-PITTSBURGH..... | 113 | 78 | ZK1 | S COOK IS-AVARUA..... | 246 | 6573 |
| W4 | AL-MONTGOMERY..... | 213 | 517 | ZK1 | N COOK IS..... | 252 | 6896 |
| W4 | FL-MIAMI..... | 176 | 1038 | ZK2 | NIUE IS..... | 254 | 6371 |
| W4 | GA-ATLANTA..... | 200 | 510 | ZK3 | TOKELOU IS..... | 269 | 6436 |
| W4 | KY-LOUISVILLE..... | 235 | 291 | ZL-ZM | NZ ZEALAND-AUCKLAND..... | 245 | 8489 |
| W4 | NC-CHARLOTTE..... | 177 | 387 | ZL2 | NZ-WELLINGTON..... | 242 | 8595 |
| W4 | SC-COLUMBIA..... | 177 | 470 | ZL3 | NZ-CHISTCHURCH..... | 241 | 8521 |
| W4 | TN-KNOXVILLE..... | 210 | 379 | ZL4 | NZ-DUNEDIN..... | 239 | 9327 |
| W4 | VA-RICHMOND..... | 135 | 316 | ZL5 | ANTARCTICA-SCOTT BASE.. | 196 | 9279 |
| W4 | TN-MEMPHIS..... | 235 | 583 | ZL7 | CHATHAM IS..... | 236 | 8274 |
| W5 | AR-LITTLE ROCK..... | 239 | 724 | ZL8 | KERMADEC IS..... | 249 | 7591 |
| W5 | LA-NEW ORLEANS..... | 216 | 894 | ZL9 | AUCKLAND & CAMP. IS.. | 233 | 9145 |
| W5 | MS-JACKSON..... | 223 | 762 | ZP | PARAGUAY-ASUNCION..... | 157 | 4875 |
| W5 | NM-ALBUQUERQUE..... | 262 | 1430 | ZR-ZS | S AFRICA-CAPETOWN..... | 112 | 8410 |
| W5 | TX-DALLAS..... | 246 | 1106 | ZR2-ZU2 | MARION & P.E. IS..... | 128 | 9413 |
| W5 | TX-HOUSTON..... | 230 | 1892 | ZB3-ZU3 | NAMIBIA-WINDHOKK..... | 182 | 7817 |
| W6 | TX-SAN ANTONIO..... | 236 | 2961 | Z55 | S AFRICA-DURBAN..... | 162 | 8593 |
| W6 | CA-LOS ANGELES..... | 266 | 2932 | Z56 | S AFRICA-JOHANNESBURG.. | 99 | 8342 |
| W6 | CA-SAN DIEGO..... | 275 | 1900 | | | | |
| W6 | CA-SDN FRANCISCO..... | 275 | 1900 | | | | |
| W7 | AZ-PHOENIX..... | 263 | 1748 | | | | |
| W7 | ID-BOISE..... | 238 | 1777 | | | | |
| W7 | MT-HELENA..... | 295 | 1568 | | | | |
| W7 | NV-LAS VAGAS..... | 271 | 1347 | | | | |
| W7 | OR-PORLAND..... | 293 | 2083 | | | | |
| W7 | UT-SALT LAKE CITY..... | 280 | 1591 | | | | |
| W7 | WA-SEATTLE..... | 297 | 2053 | | | | |
| W7 | WA-SPOKANE..... | 279 | 1196 | | | | |
| W7 | WY-CHEYENNE..... | 322 | 132 | | | | |
| W8 | MI-DETROIT..... | 235 | 292 | | | | |
| W8 | OH-CINCINNATI..... | 342 | 51 | | | | |
| W8 | OH-CLEVELAND..... | 342 | 51 | | | | |

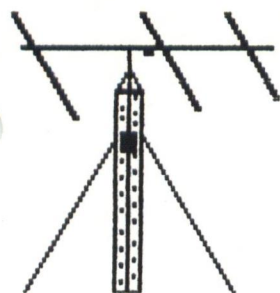
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10 CLS
20 PRINT
30 PRINT
40 PRINT
50 PRINT
60 D = 1 : K = 111.11 : M = 57.29875 : N = 60 : S = 69.441 : PRINT
70 PRINT "ENTER NEGATIVE (-), VALUES FOR SOUTHERLY LONGITUDES"
80 PRINT "ENTER NEGATIVE (-), VALUES FOR EASTERLY LONGITUDES":PRINT
90 IF D < > 1 THEN 120
100 A = 40.8 / M : CANTON-LATITUDE IN DEGREES DIVIDED BY M
110 L1 = 81.4 : CANTON LONGITUDE IN DEGREES
120 INPUT "TARGET LATITUDE IN DECIMAL DEGREES " : B
130 IF B = 0 THEN 310
140 B = B / M
150 INPUT "TARGET LONGITUDE IN DECIMAL DEGREES " : L2
160 L = (L1 - L2) / M
170 E = SIN(A) * COS(B) + COS(A) * COS(B) * COS(L)
180 D = -ATN(E) / SQR(1-E * E) + 1.57079
190 C = (SIN(B) - SIN(A) * E) / (COS(A) * SIN(D))
200 IF C > 1 THEN C = 1 : GOTO 220 ELSE IF C < -1 THEN C = -1 : GOTO 220
210 C = -ATN(C / SQR(1-C * C)) + 1.57079
220 C = C * M
230 IF SIN(L) < 0 THEN C = 360 - C : PRINT
240 PRINT "THE BEARING IS " : C : PRINT
250 PRINT "THE GREAT CIRCLE DISTANCE IS " : S * D * M : "STATUTE MILES"
260 PRINT:INPUT "ANOTHER CALCULATION(Y,N) : " : Q$ : IF Q$ = "N" THEN 290
270 IF Q$ = "N" THEN 290
280 GOTO 10
290 PRINT:PRINT "THANKS FOR USING THE PROGRAM: GOOD BY & 731 DE WELLY DAG"
300 END
310 PRINT:PRINT "THE MATHEMATICS WON'T WORK WITH A LATITUDE OF ZERO DEGREES."
320 PRINT:PRINT "THE MATHEMATICS WON'T WORK WITH A SMALL LATITUDE, (0.001) DEGREES."

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| PREFIX | COUNTRY CITY | BEARING | DISTANCE | PREFIX | COUNTRY CITY | BEARING | DISTANCE | PREFIX | COUNTRY CITY | BEARING | DISTANCE |
|--------|----------------------------|---------|----------|---------|----------------------------|---------|----------|---------|----------------------------|---------|----------|
| 1A0 | SOV. MILITARY MALT'A... | 357 | 5388 | AP-AS | PARISTAN-KARACHI... | 306 | 7184 | GU | GUERSEY IS... | 52 | 3719 |
| 1S | SPRATLY IS... | 343 | 3913 | BV | TAIWAN-TAIPEI... | 336 | 7622 | GW | MALES-CADIFF... | 50 | 3637 |
| 3A | MONACO-MONTE CARLO... | 55 | 4314 | BY-BT | CHINA-BEIJING... | 354 | 6636 | H4 | SOLOMON ILS... | 283 | 8059 |
| 3B6-7 | ST BRANDON & AGALEGA... | 59 | 1464 | BY-BT | CHINA-HONG KONG... | 344 | 7665 | HA-HG | HUNGARY-BUDAPEST... | 46 | 4639 |
| 3B8 | MAURITIUS... | 74 | 9681 | BY-BT | CHINA-SHANGHAI... | 340 | 7558 | HB | SWITZERLAND-ZURICH... | 51 | 4224 |
| 3B9 | RODRIGUES... | 63 | 19036 | C2 | NARU... | 284 | 7775 | HB0 | LIECHTENSTEIN-VADUS... | 51 | 4268 |
| 3C | EQUATORIAL GUINEA-BATA... | 88 | 6219 | C3 | ANDORRA... | 59 | 4992 | HC-HD | ECUADOR-GUAYAQUIL... | 177 | 2964 |
| 3C9 | ANNONBO... | 93 | 6191 | C5 | GAMBIA-BANJUL... | 92 | 4315 | HCS-HD8 | GALAPAGOS IS... | 194 | 2948 |
| 3D2 | FIJI IS-SUVA... | 263 | 7614 | C6 | BAHAMAS-NEW PROVIDENCE... | 167 | 1116 | HH | HAITI-ST MARC... | 162 | 1506 |
| 3D8 | SWAZILAND-MBABANE... | 98 | 3514 | C8-C9 | MOZAMBIQUE-NAPUTO... | 96 | 8555 | HI | DOMINICAN REPUBBLIC... | 153 | 1694 |
| 3V | TUNISIA-TUNIS... | 60 | 4698 | CA-CE | CHILE-SANTIAGO... | 170 | 5164 | HJ-HK | COLUMBIA-BOGATA... | 168 | 2564 |
| 3X | GUINEA-CONAKRY... | 97 | 4634 | CE0 | EASTER IS... | 206 | 5911 | HK0 | BAJO NUEVO IS... | 174 | 1740 |
| 3Y | BOUVET IS... | 138 | 8235 | CE0 | SAN FELEX IS... | 179 | 4626 | HK0 | MALPELO IS... | 180 | 2541 |
| 4S | SRI LANKA (CEYLON)... | 24 | 8972 | CE0 | JUAN FERNANDEZ IS... | 173 | 5165 | HL | SAN ANDRES IS... | 180 | 1895 |
| 4U | GENEVA(17J)(SWITZ' LAND) | 51 | 4218 | CE9/KC4 | ANTARTICA-MCMURDO BASE... | 196 | 9330 | HO-HP | SOUTH KOREA-SEOUL... | 343 | 6868 |
| 4W | UN HQ NY CITY... | 88 | 7285 | CM-CO | CUBA-HABANA... | 183 | 1223 | HO-HP | PANAMA-COLON... | 176 | 2185 |
| 4X-4Z | NORTH YEMEN-SAN'A... | 54 | 5973 | CN | MOROCCO-CASABLANCA... | 72 | 3986 | HS | HONDURAS-LA CEIBA... | 191 | 1773 |
| 5A | ISREAL-TEL AVIV... | 61 | 5973 | CP | BOLIVIA-LAPAZ... | 165 | 4933 | HS | THAILAND-BANGKOK... | 357 | 8710 |
| 5B/ZC | LIBYA-TRIPOLI... | 61 | 5973 | CR9 | CHINA-MACAO... | 345 | 7979 | HZ | SAUDI ARABIA-RIVADA... | 46 | 6856 |
| 5H-5I | CYPRUS-NICOSIA... | 49 | 3746 | CT | PORTUGAL-LISBORN... | 67 | 3736 | I | ITALY-ROME... | 54 | 4594 |
| 5N-5O | TANZANIA-DAR ES SALAM... | 75 | 8194 | CT2-CU | AZORES ILS... | 75 | 2804 | I | SARDINIA-CALJARI... | 58 | 4555 |
| 5R-5S | NIGERIA-LAGOS... | 89 | 5629 | CT3 | MADERIA IS... | 77 | 3533 | I00-I00 | DIBOUTI... | 58 | 7388 |
| 5T | MAURITANIA-NUAKHOTT... | 92 | 4131 | CV-CX | URUGUAY-MONTVIDEO... | 159 | 5448 | J2 | GRENADA-ST GEORGE'S... | 144 | 2316 |
| 5U | NIGER REP-NIAMEY... | 84 | 5267 | D2/3 | ANGOLA-LUANDA... | 93 | 1108 | J3 | GUINEA-BISSAU... | 101 | 4188 |
| 5V | TOGO REP-LOME... | 90 | 5599 | D4 | CAPE VERDE IS... | 95 | 3804 | J6 | ST. LUCIA... | 141 | 2221 |
| 5W | UGANDA-KAMPALA... | 74 | 7398 | DA-DL | CAMORES IS... | 79 | 8602 | J7 | DOMINICA-ROSEAU... | 140 | 2139 |
| 5X | REYNA-NAIROBI... | 72 | 7767 | DU-DZ | GERMANY-BERLIN... | 44 | 4237 | J8 | ST VINCENT IS... | 142 | 2272 |
| 5Z | SOMALIA-MOGADI SHO... | 260 | 6872 | EA-EH | PHILIPPINES-MANTLA... | 33 | 8364 | JA-JS | JAPAN-OSAKA... | 330 | 6736 |
| 60 | SENEGAL-DAKAR... | 96 | 8172 | EAG-EH6 | SPAIN-MADRID... | 63 | 3945 | JA-JS | JAPAN-SAPPORO... | 330 | 6833 |
| 6Y-6W | JAMAICA-KINGSTON... | 168 | 1628 | EAG-EH8 | BALERIC IS-PALMA... | 89 | 4562 | JA-JS | JAPAN-TOKYO... | 328 | 6539 |
| 70 | SOUTH YEMEN-ADEN... | 55 | 7404 | EAG-EH9 | MELILLA & CEUTA ILS... | 68 | 3829 | JD | MINAMI-TORISHIMA-MARCUS... | 311 | 6729 |
| 71-77N | LESOTHO-MASERI... | 102 | 8455 | EI-EJ | N. IRELAND-DUBLIN... | 49 | 4917 | JT-JV | MONGOLIA-ULAN BATOR... | 335 | 6312 |
| 7Q | MALAWI-LILONGWE... | 85 | 8185 | EL-EL | LIBERIA-MONROVIA... | 97 | 3771 | JW | SVABARD IS... | 15 | 3661 |
| 7P | ALGERIA-ALGIERS... | 63 | 4376 | EP-EQ | IRAN-TEHRAN... | 36 | 4803 | JX | JAN MAYEN IS... | 25 | 3139 |
| 7R | BARBADOS-BRIDGETOWN... | 168 | 1628 | ES | ETHIOPIA-TALLINN... | 34 | 4345 | JY | JORDAN-AMMAN... | 49 | 6017 |
| 8P | GUAYANA-GEORGETOWN... | 34 | 9000 | ET | FRANCE-PARIS... | 51 | 3927 | KC4 | ANTARTICA-MCMURDO BASE... | 196 | 9280 |
| 8Q | SAUDIA ARBIA-RIYADH... | 46 | 6883 | FG | GUADELOPE IS... | 139 | 2061 | KC1 | ANTARTICA-BIRD STATION... | 187 | 8474 |
| 8R | GHANA-ACCRA... | 92 | 5629 | FG-FS | SAINT MARTIN IS... | 140 | 1909 | KC6 | EAST CAROLINE IS... | 386 | 7988 |
| 8Z4 | MALTA-VELETTA... | 58 | 4964 | FK | MAYOTTE IS... | 75 | 8690 | KC6 | GUANTANAMO BAY... | 161 | 1429 |
| 9H | ZAMBIA-LUSAKA... | 89 | 6624 | FK | NEW CALEDONIA... | 267 | 9404 | KH0 | MARIANA IS SAIPAN... | 311 | 7556 |
| 9J | KUWAIT-KUWAIT CITY... | 43 | 6624 | FK | MARTINIQUE... | 140 | 2213 | KH1 | BAKER & PHOENIX IS... | 267 | 6373 |
| 9K | SIERRA LEONE-FREETOWN... | 98 | 4679 | FM | CLIPPERTON... | 237 | 2711 | KH2 | GUAM IS... | 311 | 7661 |
| 9M2 | W MALAYSIA-KUALA LUMPUR... | 356 | 9398 | FO | 59250YVESISA-TAHITI... | 243 | 5925 | KH3 | JOHNSON IS... | 282 | 5382 |
| 9M6 | E MALAYSIA-SABAH... | 336 | 8992 | FP | ST PIERRE & MIQUELON IS... | 133 | 2367 | KH4 | MIDWAY IS... | 295 | 5264 |
| 9M8 | NEPAL-KATHMANDU... | 12 | 7639 | FR | JUAN DE NOVA IS... | 30 | 8730 | KH4 | PALMYRA IS... | 268 | 5497 |
| 9Q-9T | ZAIRE-KINSHASA... | 96 | 6773 | FR | GLORIOSO IS... | 72 | 9263 | KH6 | KINGMAN REEF... | 270 | 5460 |
| 9U | BURUNDI-BUJUMBURA... | 78 | 7461 | FR | TROMELIN IS... | 70 | 8744 | KH6 | HAWAII-HONOLULU... | 278 | 4577 |
| 9V | SINGAPORE... | 352 | 9487 | FR | REUNION IS... | 74 | 9596 | KH8 | KURE IS... | 270 | 5440 |
| 9X | RWANDA-KIGALI... | 74 | 7203 | FT8X | KERGUELEN IS... | 114 | 10895 | KH8 | AMERICAN SAMOA... | 263 | 7187 |
| 9Y | TRINIDAD-PORT OF SPAIN... | 144 | 2387 | FT8Z | WALLIS & FUTUNA ILS... | 86 | 11275 | KH9 | ALASKA-ANCHORAGE... | 298 | 6388 |
| A2 | BOTSWANA-GABORONE... | 99 | 8160 | FW | FRENCH GUIANA-CAIENNE... | 141 | 2940 | KP1 | NAVASSA IS... | 164 | 1899 |
| A3 | TONGA IS-NUKUNOFA... | 267 | 7152 | FY | UNITED KINGDOM-LONDON... | 50 | 7368 | KP2 | VIRGIN IS-CHARLOTTE... | 143 | 1826 |
| A4 | OMAN-MASQAT... | 38 | 7300 | G | ISLE OF MAN-DOUGLAS... | 47 | 3516 | KP4 | PUERTO RICO-SAN JUAN... | 145 | 1799 |
| A5 | BRUTAN-THIPHU... | 9 | 7300 | GD | NORTHERN ISLAND-BELFAST... | 47 | 3516 | KP6 | DESECHEO IS... | 148 | 1770 |
| A6 | UNITED ARAB EMIRATES... | 43 | 6959 | GI | JERSEY IS... | 53 | 3737 | KX6 | MARSHALL IS... | 312 | 7415 |
| A7 | QATAR-AD DAWHAH... | 43 | 6959 | GJ | SCOTLAND-GLASGOW... | 48 | 2552 | L01 | OGASAWARA IS... | 321 | 6967 |
| A9 | BAHRAIN-AD DUR... | 43 | 6900 | GM | | | | LO-LN | NORWAY-OSLO... | 37 | 3993 |
| | | | | | | | | LO-LM | ARGENTINA-LIMA... | 175 | 3656 |

JANUARY 1992 CANTON ARC



S M T W T F S

| | | | | | | |
|---|--|--|--|--|--|--|
| | | | 1 CFARC QCWA NET 8PM NEW YEAR'S DAY N8MWS BD | 2 TUSCO RC ALLN RC | 3 MARC 8PM NOON LUNCHEON VILLAGE BUFFET | 4 KF8MR BD N8LZB BD BREAKFAST AT COUNTRY MANOR |
| 5 MUTUAL AID NET | 6 WA8RQX BD | 7 ARES 7PM SDXA 8PM | 8 QCWA NET 8PM | 9 GOODYEAR ARC W8FEC BD ESC N&I NET 9PM | 10 NOON LUNCHEON VILLAGE BUFFET | 11 BREAKFAST AT COUNTRY MANOR |
| 12 MUTUAL AID NET | 13 AK8W BD TRUSTEE'S MTG ELYRIA ARC | 14 ARES 7PM | 15 CARC 7:30PM CFARC | 16 TUSCO & SARA ESC N&I NET 9PM | 17 WA8NZE BD NOON LUNCHEON VILLAGE BUFFET | 18 ARRL VHF SWEEPSTAKES BREAKFAST AT COUNTRY MANOR |
| 19 MUTUAL AID NET ARRL VHF SWEEPSTAKES | 20 NOARS | 21 ARES 7PM W8UIL BD B&W RC | 22 PORTAGE RC QCWA NET 8PM | 23 KF8LZ BD ESC N&I NET 9PM | 24 NOON LUNCHEON VILLAGE BUFFET | 25 GOODYEAR VE BREAKFAST AT COUNTRY MANOR |
| 26 MUTUAL AID NET | 27 KK8D BD | 28 ARES 7PM LEARR | 29 QCWA NET 8PM W8MSE BD | 30 ESC N&I NET 9PM | 31 NOON LUNCHEON VILLAGE BUFFET | |